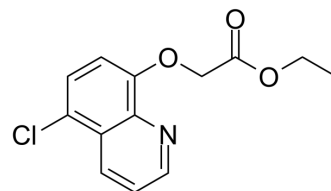


## A2793

Cat. No.:	HY-137563	
CAS No.:	88349-90-0	
Molecular Formula:	C <sub>13</sub> H <sub>12</sub> ClNO <sub>3</sub>	
Molecular Weight:	265.69	
Target:	Potassium Channel	
Pathway:	Membrane Transporter/Ion Channel	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (376.38 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions			1 mg	5 mg
		1 mM		3.7638 mL	18.8189 mL
		5 mM		0.7528 mL	3.7638 mL
	10 mM		0.3764 mL	1.8819 mL	
	Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (9.41 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.41 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	A2793 is an efficient dual TWIK-related acid-sensitive K <sup>+</sup> channel (TASK)-1/TRESK inhibitor, with an IC <sub>50</sub> of 6.8 μM for mTRESK. A2764 is more selective for TRESK, and it only moderately influences TREK-1 and TALK-1 <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 6.8 μM (mTRESK) <sup>[1]</sup> .
In Vitro	A2793 (100 μM) inhibits the unstimulated channel by 43.0±8.9% (n=5) while after ionomycin activation the reduction of the TRESK current is 85.5±2.9% (n=5) <sup>[1]</sup> . A2793 inhibits TASK-1 (100 μM, 53.4±13,5%, n=5), while A2764 is more selective for TRESK, it only moderately influences TREK-1 and TALK-1 <sup>[1]</sup> . A2793 may be considered as a tool to discriminate between the resting and activated channels in heterologous expression systems, and to block TRESK activated by calcineurin in the native cells which do not express TASK-1 <sup>[1]</sup> .

---

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

---

## REFERENCES

---

[1]. Miklós Lengyel, et al. Chemically Modified Derivatives of the Activator Compound Cloxyquin Exert Inhibitory Effect on TRESK (K 2P 18.1) Background Potassium Channel. Mol Pharmacol. 2019 Jun;95(6):652-660.

---

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA